

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P732611

Luminaire Tested: **14FCZ2-25-S-B2750-W2D-CA08-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-25-S-B2750-W2D-CA08-2700K
Description: 1X4 2500 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT
AND SMOOTH LENS, WITH, CA08 BOTTOM LENS

Light Source: -
Ballast/Driver: -

Summary

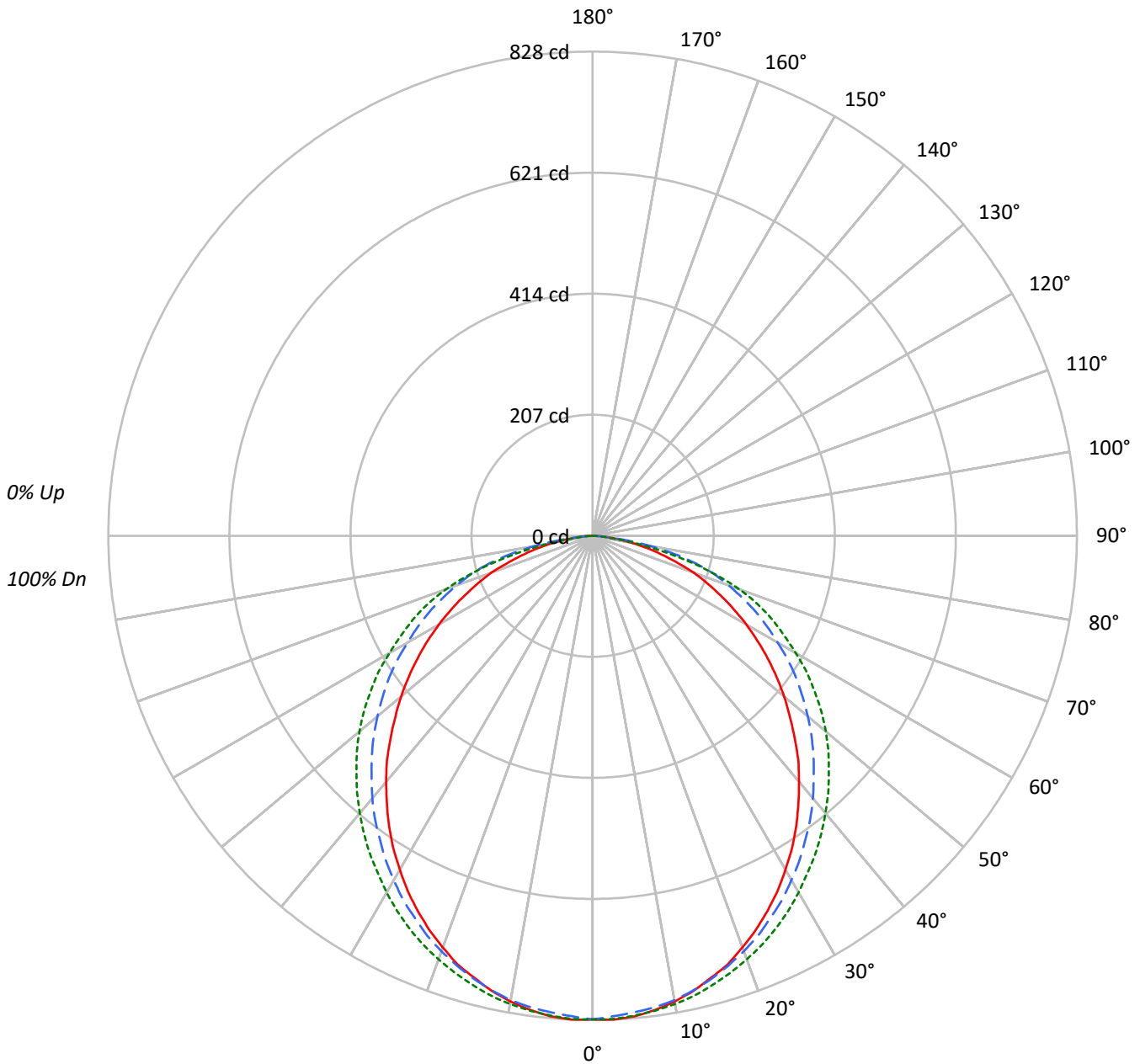
Lumens per Lamp: N/A
Luminaire Lumens: 2317.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2335	2335	2335
5°	2337	2318	2334
10°	2318	2311	2331
15°	2286	2293	2323
20°	2250	2271	2315
25°	2204	2243	2308
30°	2149	2216	2295
35°	2090	2185	2288
40°	2023	2159	2282
45°	1949	2132	2279
50°	1877	2109	2285
55°	1798	2092	2279
60°	1712	2062	2263
65°	1612	2056	2264
70°	1517	2038	2199
75°	1315	1993	1879
80°	1065	1606	1252
85°	706	557	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.4
10°-20°	222.3	9.6
20°-30°	333.4	14.4
30°-40°	397.7	17.2
40°-50°	411.1	17.7
50°-60°	375.4	16.2
60°-70°	295.4	12.7
70°-80°	172.0	7.4
80°-90°	31.7	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	633.7	27.4
0°-40°	1031.4	44.5
0°-60°	1818.0	78.5
0°-90°	2317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	827	827	827	827	827	
5°	825	822	818	825	824	78
15°	782	784	785	795	795	221
25°	708	711	720	738	741	326
35°	607	615	634	658	664	379
45°	488	504	534	564	571	377
55°	365	385	425	456	463	327
65°	241	266	308	332	339	240
75°	121	149	183	179	172	128
85°	22	31	17	14	12	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.1	827.1	827.1	827.1	827.1
2.5°	828.3	826.0	822.5	828.3	827.1
5°	824.9	822.5	818.0	824.9	823.6
7.5°	818.0	815.6	813.3	820.2	819.1
10°	808.7	807.6	806.4	814.5	813.3
12.5°	797.3	797.3	796.2	805.3	805.3
15°	782.4	783.5	784.6	794.9	794.9
17.5°	768.6	767.5	770.8	782.4	783.5
20°	749.0	751.3	755.9	769.7	770.8
22.5°	729.4	731.8	739.9	753.7	757.0
25°	707.6	711.1	720.3	737.5	741.0
27.5°	684.7	689.3	701.9	720.3	723.7
30°	659.3	666.2	680.0	700.7	704.2
32.5°	634.1	641.0	658.2	678.9	683.6
35°	606.6	614.6	634.1	658.2	664.0
37.5°	577.8	588.1	611.2	635.3	642.2
40°	549.1	560.7	585.9	611.2	619.2
42.5°	520.4	532.0	559.4	588.1	596.3
45°	488.2	504.4	534.2	564.0	570.9
47.5°	457.2	474.5	507.7	537.6	546.9
50°	427.4	444.5	480.2	511.3	520.4
52.5°	396.4	414.7	452.6	484.8	492.8
55°	365.3	384.9	425.1	456.1	463.0
57.5°	334.3	355.0	396.4	426.2	434.3
60°	303.3	325.2	365.3	395.1	400.9
62.5°	272.2	295.2	336.6	363.0	368.8
65°	241.3	266.5	307.9	332.1	339.0
67.5°	211.4	236.6	276.9	299.8	305.6
70°	183.8	206.8	247.0	264.2	266.5
72.5°	149.4	178.1	217.1	226.4	220.6
75°	120.6	149.4	182.7	179.2	172.3
77.5°	91.9	120.6	142.5	130.9	121.8
80°	65.5	94.2	98.8	81.5	77.0
82.5°	42.5	65.5	55.2	42.5	34.5
85°	21.8	31.0	17.2	13.8	11.5
87.5°	6.9	4.6	2.3	2.3	1.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)